	Application No.	Applicant(s)	
	09/757,404	GUCCIONE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Mary C Hogan	2123	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED 5) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due cours	se. THIS
1. A This communication is responsive to Response to Final C	Office Action dated 2/9/05.		
2. \boxtimes The allowed claim(s) is/are <u>1-20</u> .			
3. $igotimes$ The drawings filed on <u>8/20/04</u> are accepted by the Exami	ner.	•	
4. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).	designary and regions across a constitution existing
1. Certified copies of the priority documents have	S		
2. Certified copies of the priority documents have			j
3. Copies of the certified copies of the priority de	ocuments have been receive	ed in this national stage application to	rom the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to fil MENT of this application.	e a reply complying with the requiren	nents
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EX res reason(s) why the oath o	AMINER'S AMENDMENT or NOTIC or declaration is deficient.	E OF
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 	•	w (PTO-948) attached	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back FR 1.121(d).) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note to OLOGICAL MATERIAL.	he
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🖂 Notice of I	nformal Patent Application (PTO-152	·\
 Notice of References Cited (FTO-092) Notice of Draftperson's Patent Drawing Review (PTO-948) 	<u> </u>	Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/	_ Paper No	/Mail Date s Amendment/Comment/	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	-		:e
of Biological Material	9. Other		
		Statement of Reason's for Allowance	

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DETAILED ACTION

AND

REASONS FOR ALLOWANCE

1. This communication is in response to Applicants' Response to Final Office Action, dated 2/9/05.

Withdrawal of Rejections Under Section 103

2. Applicants' arguments are sufficient to remove the rejections under 35 USC 103 (a).

Reasons for Allowance

3. The following is an Examiner's statement of reasons for the indication of allowable subject matter:

The closest prior art of record shows:

- (1) constructing objects corresponding to a series of logic gates and signals, each object having associated therewith an output signal state and one or more input signal states, scheduling events for signals to change states according to a stimulus specification, for each event, updating the output signal state and an input signal state of a corresponding object in response to the input signal state of the event, and finding elements connected to the output signal (U.S. Patent Number 6,466,898);
- (2) FPGA's are a subclass of PLD's, configurable logic blocks that contain look up tables (LUTs), configuration code, timing constructs defining whether signals are synchronous or asynchronous, propagation delay, simulating a placed logic design to determine how the implemented FPGA design will perform (U.S. Patent Number 6,216,257);
- (3) event driven simulation, emulation, event queues for simulation of an FPGA design (Bauer et al, "A Reconfigurable Logic Machine for Fast Event-Driven Simulation", Design Automation Conference Proceedings (DAC), June, 1998, pages 668-671).
- 3.1 Applicants' claims consist of claims 1-19 and 20.

Independent claim 1 is directed to a method for simulating a circuit design for a programmable logic device (PLD); independent claim 20 is the corresponding apparatus claim. Each independent claim identifies the distinct limitations of "generating events in response to signal values in the configuration bitstream, each event including an object identifier, an input signal identifier and an input signal state".

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Because the closest prior art does not appear to teach or suggest that the events are generated in response to signal values in the configuration bitstream, and wherein the event includes an input signal identifier, Claims 1-20 are deemed allowable.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 5. The prior art made of record, see PTO 892, and not relied upon is considered pertinent to applicant's disclosure, careful consideration must be given prior to Applicant's response to this Office Action.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary C Hogan whose telephone number is 571-272-3712. The examiner can normally be reached on 7:30AM-5PM Monday-Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska can be reached on 571-272-3716. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mary C. Hogan Assistant Patent Examiner Art Unit 2123
